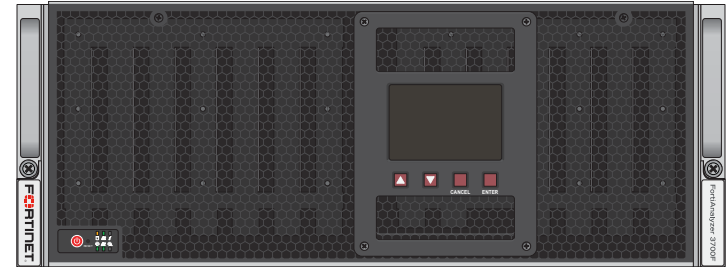




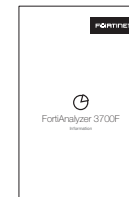
FortiAnalyzer 3700F

Information

Box Includes



FortiAnalyzer 3700F



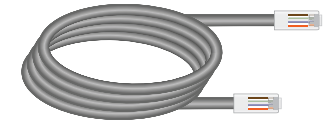
Information Supplement



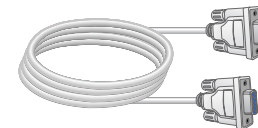
FortiAnalyzer QuickStart Guide



(2) Power Cables



Ethernet Cable



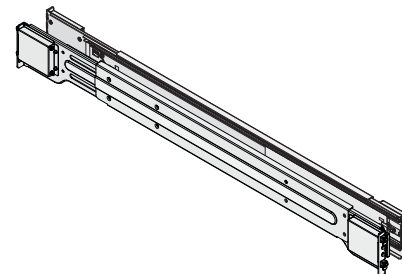
Console Cable



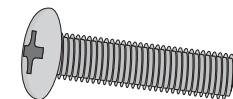
(2) M4 Flat Head Screws



(8) M5 12L Flat Head Screws & Washers



(2) Rail-Mount Brackets



(2) M5 20L Truss Head Screws



January 05, 2021

05-541-382365-20210105

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Rack Installation

The FortiAnalyzer unit can be mounted in any standard 19 inch rack unit with the provided mounting hardware.

Please read the "Cautions and Warnings" on page 17 prior to installing your device.

Caution: A rack stabilizing mechanism must be in place, or the rack must be bolted to the floor, before you slide the unit out for servicing. Failure to stabilize the rack can cause the rack to tip over.

Do not pick up the device with the front handles. They are designed to pull the system from a rack only.

Electrostatic discharge (ESD) can damage your Fortinet equipment.

To avoid personal injury or damage to the unit, it is recommended that two or more people install the unit into the rack.

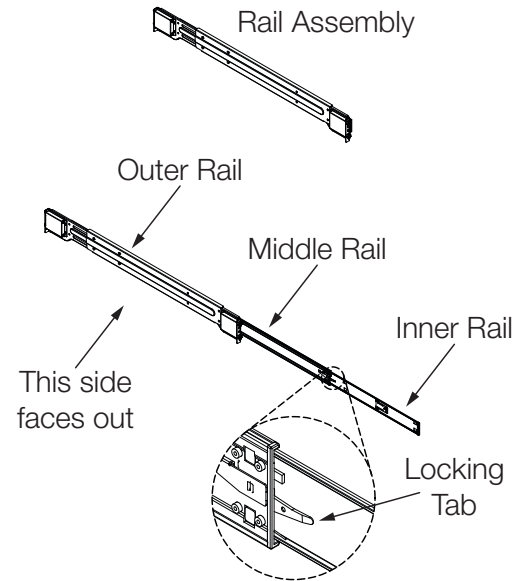
Do not place heavy objects on the unit.

Rack Precautions

- Ensure the leveling jacks on the bottom of the rack are fully extended to the floor with the full weight of the rack resting on the jacks.
- For single rack installation, stabilizers should be attached to the rack.
- For multiple rack installations, the racks should be coupled together.
- Ensure the rack is stable before extending a component from the rack.
- Only extend one component at a time; extending two or more simultaneously may cause the rack to become unstable.

Note: After installing the device into the rack, install the hard disk drives into the device.

Rack Rail Parts



The rail assembly consists of three parts:

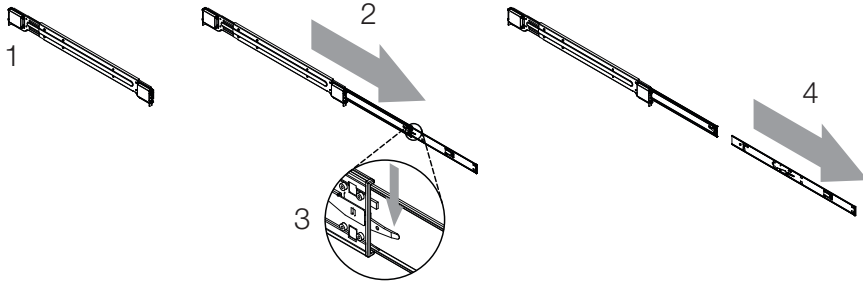
- Outer rail: connects to the rack
- Middle rail: connects the inner and outer rails
- Inner rail: connects to the device.

The inner rail has a locking tab that locks the device into place when it is installed and pushed into the rack. This prevents the device from sliding fully out of the rack when the device is being worked on.

There are five steps to install the device into the rack:

1. Disassemble the rail assembly
2. Attach the inner rails to the device
3. Install the outer rails on a rack
4. Install the device into the rack
5. Install the cable management arm

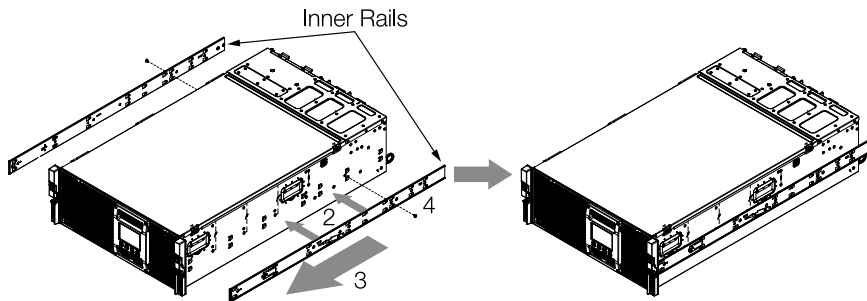
Disassemble the rail assembly:



1. Identify the left and right rail assemblies.
2. Pull out the inner rail until it is fully extended.
3. Press down the locking tab to release the inner rail.
4. Remove the inner rail from the outer rail.
5. Repeat steps 2 - 4 for the remaining rail assembly.

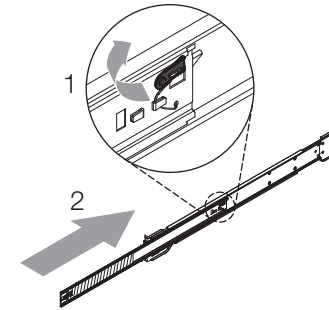
Caution: Do not pick up the server by the front handles. They are designed to only pull the unit from the rack.

Attach the inner rails to the device:

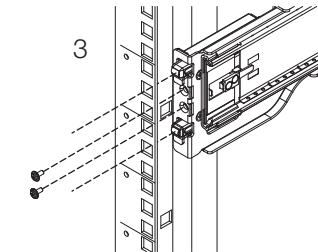


1. Ensure that the right and left rails are correctly identified.
2. Place the inner rail against the side of the device, ensuring that the hooks on the side of the device align with the holes in the rail.
3. Slide the rail towards the front of the device until the rail clicks into the locked position.
4. Optionally, secure the rail to the device using the provided M4 Flat Head screws.
5. Repeat steps 2 - 4 for the remaining rail.

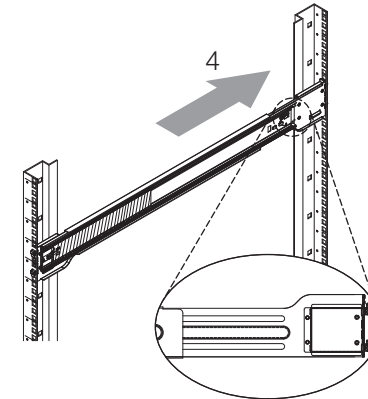
Install the outer rails on a rack:



1. Press up on the locking tab on the back of the middle rail.
2. Push the middle rail back into the outer rail.

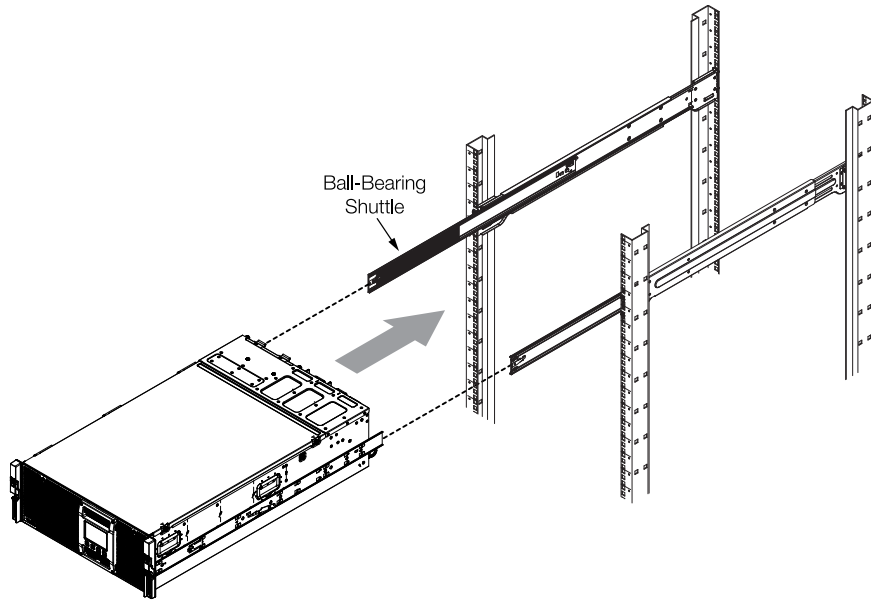


3. Hang the hooks on the front of the outer rail to the slots on the rack. Use two of the provided washers and M5 12L Flat Head screws to secure the rail to the rack.



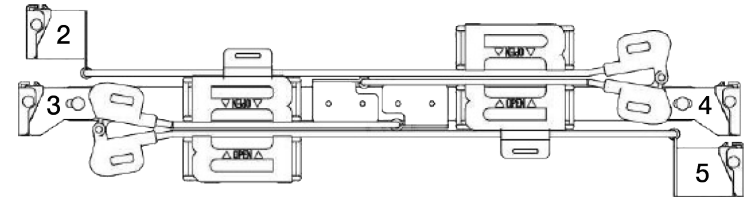
4. Pull out the back of the outer rail to adjust its length until it fits properly in the rack.
5. Hang the hooks on the back of the rail to the slots on the back of the rack. Use two of the provided washers and M5 12L Flat Head screws to secure the rail to the rack.
6. Repeat steps 1 - 5 for the remaining rail.

Install the device into the rack:

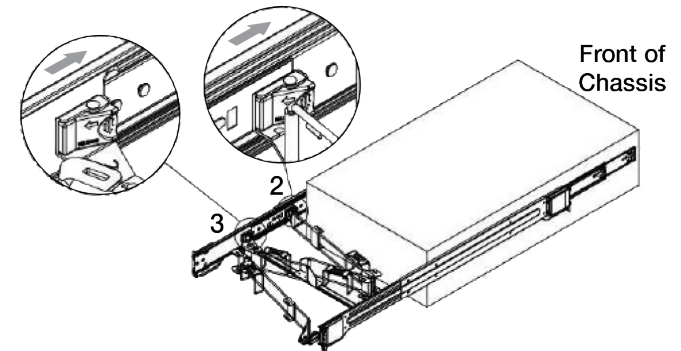


1. Ensure that the inner rails are properly connected to the device, and the that the outer rails are securely attached to the rack.
2. Pull the middle rail out from the front of the outer rail until it locks.
3. Align the inner rails with the middle rails and slide the device onto the rails until the locking tab on the inner rails clicks into the front of the middle rails. Ensure that even pressure is applied to both sides of the device while doing this.
4. Push down the locking tabs on both sides at the same time, then push the device all the way into the rack.
5. When the unit has been completely pushed into the rack, the locking tabs will click into the locked position.
6. Install the hard disk drives into the device.

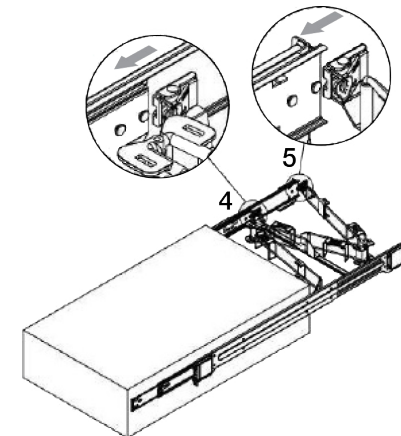
Install the cable management arm



1. Slide the device part way out of the rack to provide space for installing the cable management arm.
2. Attach the inner member connector to the back end of the right inner rail (when looking at the front of the device).
3. Attach the supporting bar connector to the back end of the right middle rail.

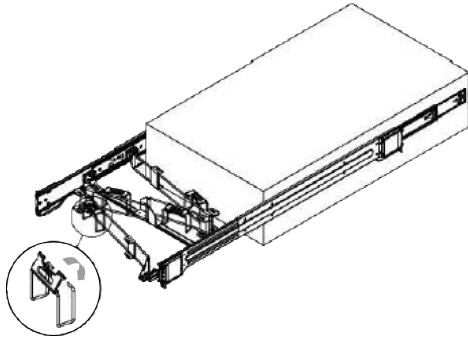


4. Attach the supporting bar connector to the back end of the left middle rail.
5. Attach the outer member connector to the back end of the left outer rail.

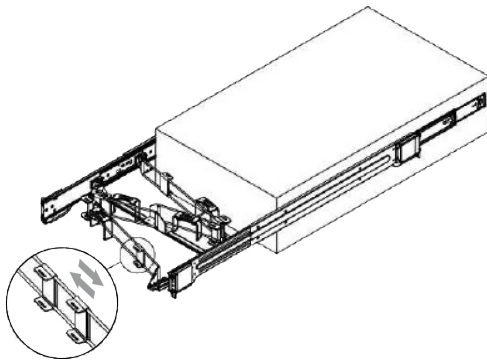


6. Plug the supplied power cables into the power supplies on the back of the device, and connect any other required cables.

- Open the red caps and route the cables through the wire carrier. This is important to ensure that cables are not damaged when sliding the device in and out of the rack.



- Fasten the cables using the provided straps and the aluminum joints and U bracket. Use two straps on each joint and one on each connector.
- Slide the chassis in and out to ensure that the cable management arm's motion is smooth. If it is not, loosen the straps as required.
- If required, adjust the location of the U bracket to ensure that it does not interfere with the power source.



Connect the device

- Plug the power cables into grounded electrical outlets or a separate power sources, such as uninterruptible power supplies (UPS) or a power distribution units (PDU).
- Insert the Ethernet cable into a router or switch that is connected to the Internet.
- Press the power button on the system to turn on the device.

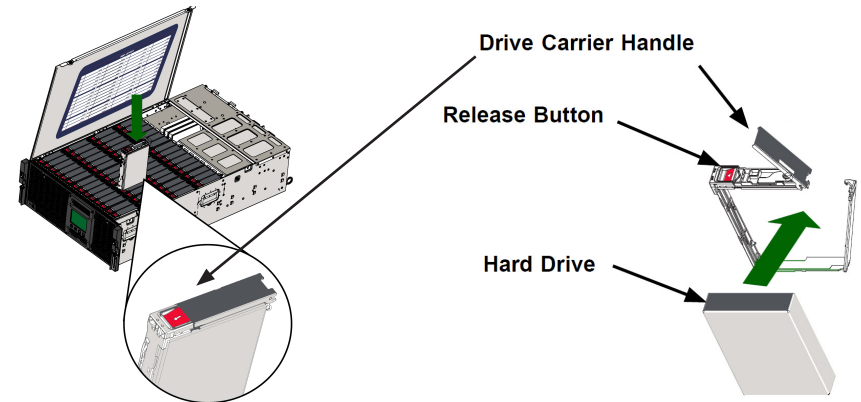
Note: For additional security, secure the chassis handles to the front of the rack with the provided M5 20L Truss Head screws.

Hard Drive Installation

The FAZ-3700F supports 60 x 3.5" hard drives in toolless hard drive carriers. To install a hard drive:

- Power down the system and disconnect the AC power cords

WARNING: Do not operate the device with drives removed, unless for short periods of time such as when hot-swapping hard drives



- Open the top lid of the chassis
- Remove a hard drive carrier
- Press the release button on the drive carrier to retract the handle
- Insert the hard drive into the carrier
- Close the carrier handle
- Push the carrier into the hard drive bay until it locks in position

NOTE: Match the labels on the hard drive and carrier as per the HDD LAYOUT

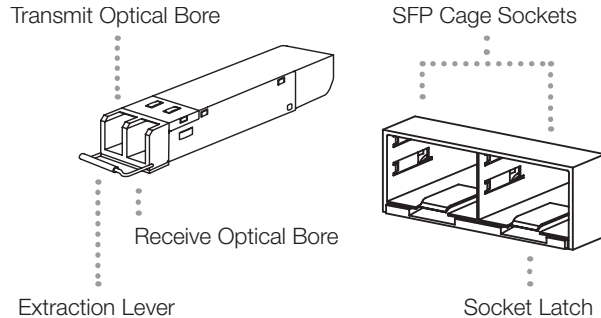
HDD LAYOUT											
▲	1	Drive # 01	▲	16	Drive # 16	▲	31	Drive # 31	▲	46	Drive # 46
▲	2	Drive # 02	▲	17	Drive # 17	▲	32	Drive # 32	▲	47	Drive # 47
▲	3	Drive # 03	▲	18	Drive # 18	▲	33	Drive # 33	▲	48	Drive # 48
▲	4	Drive # 04	▲	19	Drive # 19	▲	34	Drive # 34	▲	49	Drive # 49
▲	5	Drive # 05	▲	20	Drive # 20	▲	35	Drive # 35	▲	50	Drive # 50
▲	6	Drive # 06	▲	21	Drive # 21	▲	36	Drive # 36	▲	51	Drive # 51
▲	7	Drive # 07	▲	22	Drive # 22	▲	37	Drive # 37	▲	52	Drive # 52
▲	8	Drive # 08	▲	23	Drive # 23	▲	38	Drive # 38	▲	53	Drive # 53
▲	9	Drive # 09	▲	24	Drive # 24	▲	39	Drive # 39	▲	54	Drive # 54
▲	10	Drive # 10	▲	25	Drive # 25	▲	40	Drive # 40	▲	55	Drive # 55
▲	11	Drive # 11	▲	26	Drive # 26	▲	41	Drive # 41	▲	56	Drive # 56
▲	12	Drive # 12	▲	27	Drive # 27	▲	42	Drive # 42	▲	57	Drive # 57
▲	13	Drive # 13	▲	28	Drive # 28	▲	43	Drive # 43	▲	58	Drive # 58
▲	14	Drive # 14	▲	29	Drive # 29	▲	44	Drive # 44	▲	59	Drive # 59
▲	15	Drive # 15	▲	30	Drive # 30	▲	45	Drive # 45	▲	60	Drive # 60

SFP Transceivers

Caution: SFP transceivers are static sensitive devices. Use an ESD wrist strap or similar grounding device when handling transceivers.

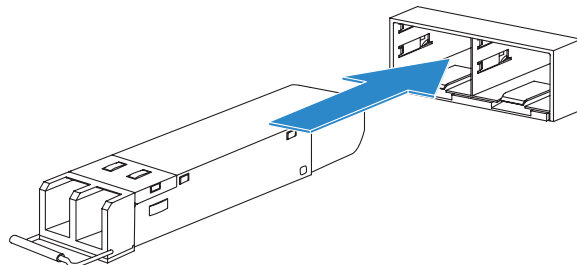
Do not force the SFP transceivers into the cage slots. If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the SFP transceiver, realign it or rotate it and slide it in again.

Note: Installing and removing SFP transceivers can shorten their useful life. Do not install or remove transceivers more than is necessary.



To install the SFP transceivers

1. Ensure that you are properly grounded.
2. Remove the caps from the SFP cage sockets on the front panel of the unit.
3. Position the SFP transceiver in front of the cage socket opening and ensure that the transceiver is correctly oriented. When the transceiver is correctly oriented, the extraction lever will be level with the socket latch.
Note: SFP cage socket orientation may vary. Ensure that the SFP transceiver module is correctly oriented each time that you are inserting a transceiver.
4. Hold the sides of the SFP transceiver and slide it into the cage socket until it clicks into place.

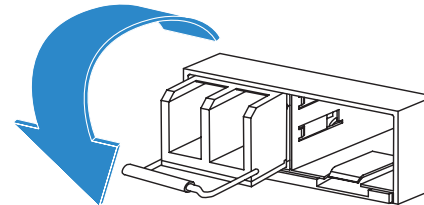


5. Press the transceiver firmly into the cage socket with your thumb.

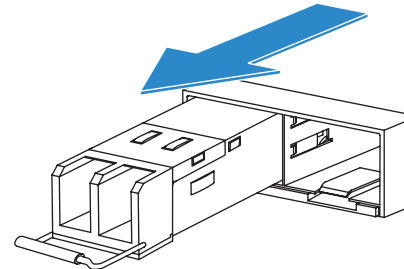
6. Verify that the transceiver is latched correctly by grasping the sides of the transceiver and trying to pull it out without lowering the extraction lever. If the transceiver cannot be removed, it is installed and latched correctly. If the transceiver can be removed, reinsert it and press harder with your thumb. If necessary, repeat this process until the transceiver is securely latched into the cage socket.

To remove the SFP transceivers

1. Ensure that you are properly grounded.
2. If applicable, disconnect the fiber-optic cable from the transceiver connector and install a clean dust plug in the transceiver's optical bores.
3. Pull the extraction lever out and down to eject the transceiver. If you are unable to use your finger to open the lever, use a small flat-head screwdriver or other similar tool to open the lever.



4. Hold the sides of the transceiver and carefully pull it away from the cage socket.



5. Replace the cap on the SFP cage socket and place the removed SFP transceiver into an antistatic bag.

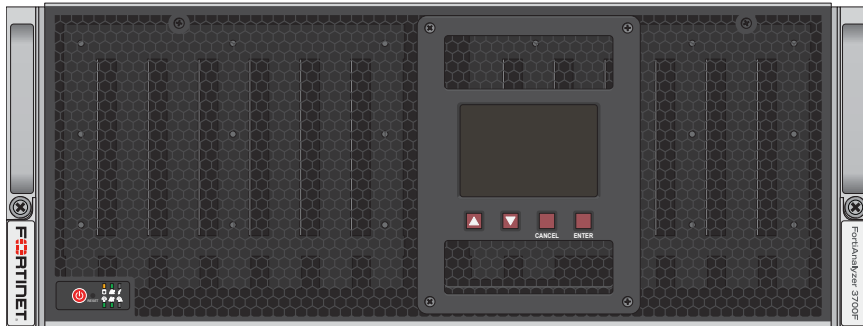
Caution: Do not install or remove SFP transceivers while fiber-optic cables are still attached. This can cause damage to the cables, cable connectors, and the optical interfaces. It may also prevent the transceiver from latching correctly into the socket connector.

Note: Follow proper fiber-optic handling procedures when installing and removing SFP transceivers to ensure the devices remain clean and are not damaged.

FortiAnalyzer 3700F

Power Button

Turn the system off



LCD Screen and Buttons

View information about the system

Hard Disks

- Flashing Yellow: Hard disk activity
- Off: No hard disk activity

Power

- Green: System is powered
- Off: System is off

Ethernet Ports

- Flashing Green: Network activity
- Off: Not connected

Information

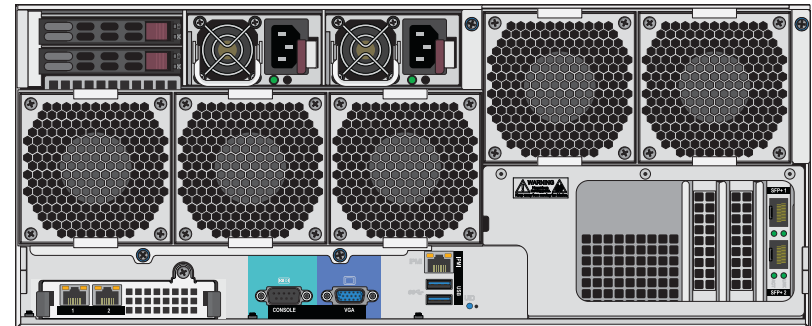
- Red: Overheat condition has occurred
- Flashing Red (1Hz): Fan failure
- Flashing Red (0.25Hz): Power failure
- Blue: Local UID activated
- Flashing Blue: Remote UID activated
- Off: System normal

Power Failure

- Red: A power supply has failed
- Flashing Red: Hard disk failure
- Off: Normal operation

Power Supplies

- Green: Power supply operating normally
- Amber: Power supply failure
- Off: Power not connected



Ethernet Ports Link/Activity

- Flashing Yellow: Transmitting & receiving data
- Off: Not connected

Ethernet Ports Speed

- Amber: Connected at 1Gbps
- Green: Connected at 100Mbps
- Off: Connected at 10Mbps or not connected

SFP+ Ports Link

- Green: Connected at 10Gbps
- Yellow: Connected at 1Gbps
- Off: Not connected

SFP+ Ports Activity

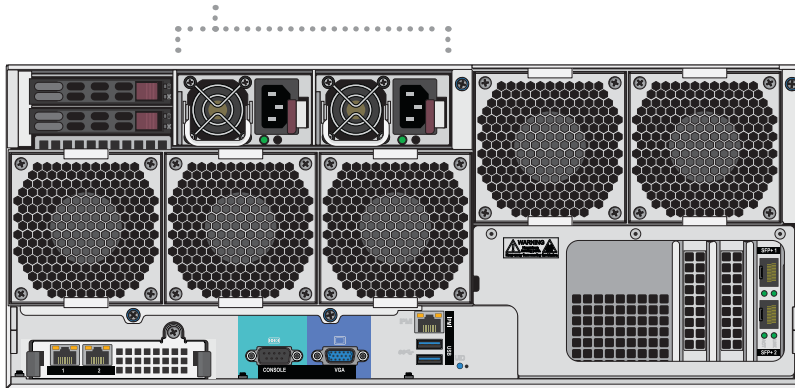
- Flashing Green: Transmitting & receiving data
- Off: Not connected

FortiAnalyzer 3700F

Power Supplies

100-240V AC, 50/60Hz power supplies

Note: At 100-120V AC both power supplies are required for normal operation
At 200-240V AC the power supplies are redundant



SFP+ Ports (SFP+)
10Gbps small form-factor
pluggable transceiver ports

IPMI Port (RJ-45)

Do not use

Changing the default password is strongly recommended

See <http://forti.net/ipmi-password>

USB Ports (USB A)

USB 3.0 server ports

Console Port (DB-9)

Optional connection to the management computer

Provides access to the CLI

VGA Port (DB-15)

Not in use

Ethernet Ports (RJ-45)

Gigabit Ethernet network connections



Cautions and Warnings

Environmental Specifications

Ambient operating temperature: 0C to 40C

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions:

Instructions de montage en rack - Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{max}) specified by the manufacturer. Température ambiante élevée - S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (T_{max}) stipulée par le fabricant.

Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised. Ventilation réduite - Installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading. Chargement Mécanique - Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas liée à un chargement mécanique inégal.

Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Surtenstion - Il convient de prendre l'ensemble des précautions nécessaires lors du branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de l'équipement.

Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

Fiabilité de la mise à la terre - Fiabilité de la mise à la terre de l'équipement monté en rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

Blade Carriers, Cards and Modems must be Listed Accessories or Switch, Processor, Carrier and similar blades or cards should be UL Listed or Equivalent. Serveur-blades, cartes et modems doivent être des accessoires listés ou commutateurs, processeurs, serveurs et similaire blades ou cartes doivent être listé UL ou équivalent.

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude). Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Moving parts - Hazardous moving parts. Keep away from moving fan blades. Pièces mobiles - Pièces mobiles dangereuses. Se tenir éloigné des lames mobiles du ventilateur.

Warning: Equipment intended for installation in Restricted Access Location. **Avertissement:** Le matériel est conçu pour être installé dans un endroit où l'accès est restreint.

Battery - Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries. Batterie - Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

警告
本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池

CAUTION: Shock Hazard. Disconnect all power sources. **ATTENTION:** Risque d'électrocution. Débranchez toutes les sources d'alimentation.

Grounding - To prevent damage to your equipment, connections that enter from outside the building should pass through a lightning / surge protector, and be properly grounded. Use an electrostatic discharge workstation (ESD) and/or wear an anti-static wrist strap while you work. In addition to the grounding terminal of the plug, on the back panel, there is another, separate terminal for earthing.

Mise à la terre - Pour éviter d'endommager votre matériel, assurez-vous que les branchements qui entrent à partir de l'extérieur du bâtiment passent par un parafoudre / parasurtenseur et sont correctement mis à la terre. Utilisez un poste de travail de décharge électrostatique (ESD) et / ou portez un bracelet anti-statique lorsque vous travaillez. Ce

produit possède une borne de mise à la terre qui est prévu à l'arrière du produit, à ceci s'ajoute la mise à la terre de la prise.

This product has a separate protective earthing terminal provided on the back of the product in addition to the grounding terminal of the attachment plug. This separate protective earthing terminal must be permanently connected to earth with a green with yellow stripe conductor minimum size # 14 AWG and the connection is to be installed by a qualified service personnel.

Ce produit a une borne de mise à la terre séparé sur le dos de l'appareil, en plus de la borne de mise à la terre de la fiche de raccordement. Cette borne de mise à la terre séparée doit être connecté en permanence à la terre avec un conducteur vert avec la bande jaune de minimum # 14 AWG et la connexion doit être installé par un personnel qualifié.

Caution: Slide/rail mounted equipment is not to be used as a shelf or a work space. **Attention:** Un équipement monté sur bâti ne doit pas être utilisé sur une étagère ou dans un espace de travail.

Regulatory Compliance

Federal Communication Commission (FCC) - USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

WARNING: Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Industry Canada Equipment Standard for Digital Equipment (ICES) - Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



Product Safety Electrical Appliance & Material (PSE) - Japan

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Voluntary Control Council for Interference (VCCI) - Japan

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